APPENDIX

Version with Markings to Show Changes Made

In the Claims:

Please amend the claims as follows:

40. (Twice Amended) A transgenic mouse all of whose germ cells and somatic cells contain a DNA sequence comprising a promoter of [the] a β2-subunit of neuronal nicotinic acetylcholine receptor having the sequence from about nucleotide -1125 to about nucleotide +38 [as set forth in Figure 1 (] of SEQ ID NO. 22[)] operatively linked to a nucleotide sequence encoding a heterologous polypeptide, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein and is expressed in neurons of the transgenic mouse at a level sufficient to induce tumor formation in said neurons [, and wherein the DNA sequence was introduced into the transgenic mouse or an ancestor of the transgenic mouse at an embryonic stage].

41. (Twice Amended) A transgenic mouse generated by crossing a first mouse with a second mouse, wherein all of the germ cells and somatic cells of the first mouse contain a DNA sequence comprising a promoter of [the] a β2-subunit of neuronal nicotinic acetylcholine receptor having the sequence from about nucleotide -1125 to about nucleotide +38 [as set forth in Figure 1 (] of SEQ ID NO. 22[)] operatively linked to a nucleotide sequence encoding a heterologous polypeptide, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein and is expressed in neurons of the first mouse, [wherein the DNA was introduced into the first mouse or an

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ancestor of the first mouse at an embryonic stage, and] wherein the neurons of the transgenic mouse express the heterologous polypeptide at a level sufficient to induce tumor formation in said neurons.

46. (Twice Amended) A process for producing a neuronal host cell that expresses a heterologous [protein] polypeptide, comprising transferring to the neuronal host cell a DNA sequence comprising a promoter of [the] a β2-subunit of neuronal nicotinic acetylcholine receptor having the sequence from about nucleotide -1125 to about nucleotide +38 [as set forth in Figure 1 (] of SEQ ID NO. 22[)] operatively linked to a nucleotide sequence encoding the heterologous polypeptide under suitable conditions to cause expression of the heterologous polypeptide by the neuronal host cell, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein or is encoded by a reporter gene.

47. (Twice Amended) The process according to claim 46, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein.

51. (Amended) The process according to claim 46, wherein the nucleotide sequence encoding the heterologous [protein] polypeptide is a reporter gene.

54. (Twice Amended) The process according to claim 53, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein.

55. (Twice Amended) A process for producing a neuronal host cell that expresses a heterologous [protein] polypeptide, comprising:

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introducing a DNA sequence into a mouse at an embryonic stage, wherein the DNA sequence comprises a promoter of [the] a β2-subunit of neuronal nicotinic acetylcholine receptor having the sequence from about nucleotide -1125 to about nucleotide +38 [as set forth in Figure 1 (] of SEQ ID NO. 22[)] operatively linked to a nucleotide sequence encoding the heterologous polypeptide, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein or is encoded by a reporter gene; and

generating a transgenic mouse all of whose germ cells and somatic cells contain the DNA sequence and wherein the neurons of the transgenic mouse express the heterologous polypeptide.

56. (Amended) The process according to claim 55, wherein the nucleotide sequence encoding the heterologous [protein] polypeptide is a reporter gene.

58. (Twice Amended) The process according to claim 55, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein.

59. (Amended) A transgenic mouse generated by crossing a first mouse with a second mouse, wherein the first mouse comprises germ cells, which contain a DNA sequence comprising a promoter of [the] a β2-subunit of neuronal nicotinic acetylcholine receptor having the sequence from about nucleotide -1125 to about nucleotide +38 [as set forth in Figure 1 (] of SEQ ID NO. 22[)] operatively linked to a nucleotide sequence encoding a heterologous polypeptide, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein or is encoded by a reporter gene,

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[and] wherein the heterologous polypeptide is expressed in neurons of the [first] transgenic mouse and wherein the oncogenic protein is expressed at a level sufficient to induce tumor formation in said neurons [, wherein the DNA was introduced into the first mouse at an embryonic stage].

60. (Amended) A transgenic mouse according to claim 59, wherein the nucleotide sequence encoding the heterologous [protein] polypeptide is a reporter gene.

62. (Amended) A transgenic mouse according to claim 59, wherein the heterologous polypeptide is an oncogenic[, tumorigenic, or immortalizing] protein.

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